

Refine Search

Search Results -

Terms	Documents
L5 and (MegK or MegCV or MegBIII or MegCIV)	4

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L6



Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Friday, April 13, 2007
 [Purge Queries](#)
 [Printable Copy](#)
 [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=OR

L6 L5 and (MegK or MegCV or MegBIII or MegCIV)

4

L6

L5 (gene cluster and Meg)

105245

L5

L4 L1 and (MegK)

1

L4

L3 L1 and MegL

0

L3

DB=PGPB; PLUR=YES; OP=OR

L2 L1

0

L2

DB=USPT; PLUR=YES; OP=OR

L1 hutchinson.in.

1366

L1

END OF SEARCH HISTORY

Hit List

First Hit

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 7189549 B2

L4: Entry 1 of 1

File: USPT

Mar 13, 2007

US-PAT-NO: 7189549

DOCUMENT-IDENTIFIER: US 7189549 B2

TITLE: Recombinant polynucleotides encoding pro-geldanamycin producing polyketide synthase and accessory proteins, and uses thereof

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040077058 A1

April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hutchinson; Richard C.	San Mateo	CA		US
Reid; Ralph C.	San Rafael	CA		US
Hu; Zhihao	Castro Valley	CA		US
Rascher; Andreas	San Francisco	CA		US
Schirmer; Andreas	Hayward	CA		US
McDaniel; Robert	Palo Alto	CA		US

US-CL-CURRENT: 435/190; 435/193, 435/252.35, 435/320.1, 435/69.7, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Abstracts	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-----------	--------	------	--------

Terms	Documents
L1 and (MegK)	1

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

First Hit

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate ACS

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 7189549 B2

L6: Entry 1 of 4

File: USPT

Mar 13, 2007

US-PAT-NO: 7189549

DOCUMENT-IDENTIFIER: US 7189549 B2

TITLE: Recombinant polynucleotides encoding pro-geldanamycin producing polyketide synthase and accessory proteins, and uses thereof

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040077058 A1

April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hutchinson; Richard C.	San Mateo	CA		US
Reid; Ralph C.	San Rafael	CA		US
Hu; Zhihao	Castro Valley	CA		US
Rascher; Andreas	San Francisco	CA		US
Schirmer; Andreas	Hayward	CA		US
McDaniel; Robert	Palo Alto	CA		US

US-CL-CURRENT: 435/190; 435/193, 435/252.35, 435/320.1, 435/69.7, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 2. Document ID: US 7011959 B1

L6: Entry 2 of 4

File: USPT

Mar 14, 2006

US-PAT-NO: 7011959

DOCUMENT-IDENTIFIER: US 7011959 B1

TITLE: Heterologous production of polyketides

DATE-ISSUED: March 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Santi; Daniel	San Francisco	CA	US
Peck; Larry	San Carlos	CA	US
Dayem; Linda	Belmont	CA	US
Kealey; James	San Rafael	CA	US

US-CL-CURRENT: [435/76](#); [435/252.33](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 3. Document ID: US 6627427 B1

L6: Entry 3 of 4

File: USPT

Sep 30, 2003

US-PAT-NO: 6627427

DOCUMENT-IDENTIFIER: US 6627427 B1

TITLE: Heterologous production of 15-methyl-6-deoxyerthronolide B

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katz; Leonard	Oakland	CA		
Revill; Peter	Oakland	CA		

US-CL-CURRENT: [435/252.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 4. Document ID: US 6524841 B1

L6: Entry 4 of 4

File: USPT

Feb 25, 2003

US-PAT-NO: 6524841

DOCUMENT-IDENTIFIER: US 6524841 B1

TITLE: Recombinant megalomicin biosynthetic genes and uses thereof

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDaniel; Robert	Palo Alto	CA		
Volchegursky; Yanina	Emeryville	CA		

US-CL-CURRENT: [435/252.3](#); [435/252.35](#), [435/254.11](#), [435/320.1](#), [435/325](#), [435/419](#),
[536/23.1](#), [536/23.2](#), [536/23.7](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L5 and (MegK or MegCV or MegBIII or MegCIV)	4

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:33:39 ON 13 APR 2007

=> file medline, uspatful, dgene, embase, wpids, biosis		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.10	2.10

FILE 'MEDLINE' ENTERED AT 15:39:17 ON 13 APR 2007

FILE 'USPATFULL' ENTERED AT 15:39:17 ON 13 APR 2007
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 15:39:17 ON 13 APR 2007
COPYRIGHT (C) 2007 THE THOMSON CORPORATION

FILE 'EMBASE' ENTERED AT 15:39:17 ON 13 APR 2007
Copyright (c) 2007 Elsevier B.V. All rights reserved.

FILE 'WPIDS' ENTERED AT 15:39:17 ON 13 APR 2007
COPYRIGHT (C) 2007 THE THOMSON CORPORATION

FILE 'BIOSIS' ENTERED AT 15:39:17 ON 13 APR 2007
Copyright (c) 2007 The Thomson Corporation

=> s (MegL or MegK or MegF or MegBIII or MegCV)
L1 548 (MEGL OR MEGK OR MEGF OR MEGBIII OR MEGCV)

=> s l1 and (gene cluster)
3 FILES SEARCHED...
L2 18 L1 AND (GENE CLUSTER)

=> s l2 and (vector)
L3 14 L2 AND (VECTOR)

=> s l3 and (host cell)
3 FILES SEARCHED...
L4 14 L3 AND (HOST CELL)

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 14 USPATFULL on STN
TI Heterologous production of polyketides
AB Recombinant E. coli host cells that comprise recombinant DNA expression vectors that drive expression of methylmalonyl CoA mutase from Propionibacterium shermanii or Streptomyces cinnamonensis as well as Propionibacterium shermanii epimerase can produce S-methylmalonyl CoA, a required substrate for the production of polyketides by most modular polyketide synthases and is not present in wild-type E. coli host cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2006:63029 USPATFULL
TITLE: Heterologous production of polyketides
INVENTOR(S): Santi, Daniel, San Francisco, CA, UNITED STATES
Peck, Larry, San Carlos, CA, UNITED STATES
Dayem, Linda, Belmont, CA, UNITED STATES
Kealey, James, San Rafael, CA, UNITED STATES
PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, UNITED STATES

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1653hxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 18	CA/Caplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	4	DEC 18	CA/Caplus patent kind codes updated
NEWS	5	DEC 18	MARPAT to CA/Caplus accession number crossover limit increased to 50,000
NEWS	6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	7	DEC 27	CA/Caplus enhanced with more pre-1907 records
NEWS	8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	9	JAN 16	CA/Caplus Company Name Thesaurus enhanced and reloaded
NEWS	10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	12	JAN 22	CA/Caplus updated with revised CAS roles
NEWS	13	JAN 22	CA/Caplus enhanced with patent applications from India
NEWS	14	JAN 29	PHAR reloaded with new search and display fields
NEWS	15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	19	FEB 26	MEDLINE reloaded with enhancements
NEWS	20	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS	21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS	24	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	25	MAR 16	CASREACT coverage extended
NEWS	26	MAR 20	MARPAT now updated daily
NEWS	27	MAR 22	LWPI reloaded
NEWS	28	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	29	MAR 30	INPADOCDB will replace INPADOC on STN
NEWS	30	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		
NEWS X25	X.25 communication option no longer available		

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 7011959	B1	20060314
APPLICATION INFO.:	US 2000-699136		20001027 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161703P	19991027 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Kerr, Kathleen	
LEGAL REPRESENTATIVE:	Ashley, Gary W.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	3239	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 2 OF 14 USPATFULL on STN
TI Gene cluster for fostriecin biosynthesis
AB Domains of fostriecin polyketide synthase and modification enzymes and polynucleotides encoding them are provided. Methods to prepare fostriecin in pharmaceutically useful quantities are described, as are methods to prepare fostriecin analogs and other polyketides using the polynucleotides encoding fostriecin polyketide synthase domains or modifying enzymes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:171298 USPATFULL
TITLE: Gene cluster for fostriecin biosynthesis
INVENTOR(S): Reid, Ralph C., San Rafael, CA, UNITED STATES
Hu, Zhihao, Castro Valley, CA, UNITED STATES
Tang, Li, Foster City, CA, UNITED STATES
PATENT ASSIGNEE(S): KOSAN BIOSCIENCES, INC., A Delaware corporation, Hayward, CA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005148045	A1	20050707
APPLICATION INFO.:	US 2004-922282	A1	20040818 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-496306P	20030818 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834, US	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	9199	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 3 OF 14 USPATFULL on STN
TI Disorazole polyketide synthase encoding polynucleotides
AB Domains of disorazole polyketide synthase and polynucleotides encoding them are provided. Methods to prepare disorazoles in pharmaceutically useful quantities are described, as are methods to prepare disorazole analogs and other polyketides using the polynucleotides encoding disorazole polyketide synthase domains or modifying enzymes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:37505 USPATFULL
TITLE: Disorazole polyketide synthase encoding polynucleotides
INVENTOR(S): Julien, Bryan, Oakland, CA, UNITED STATES
Reid, Ralph C., San Rafael, CA, UNITED STATES
PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, UNITED STATES,
94545 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005032184	A1	20050210
APPLICATION INFO.:	US 2003-729802	A1	20031205 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-512892P	20031020 (60)
	US 2003-484934P	20030702 (60)
	US 2003-473311P	20030522 (60)
	US 2003-465038P	20030423 (60)
	US 2003-455521P	20030317 (60)
	US 2002-431272P	20021206 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO
CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 4711
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 14 USPATFULL on STN
TI Recombinant genes for polyketide modifying enzymes
AB Materials and methods to produce modified polyketides are disclosed. The
biosynthesis, transfer and regulator genes for various sugars to
effectuate polyketide modification are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:260518 USPATFULL
TITLE: Recombinant genes for polyketide modifying enzymes
INVENTOR(S): Hutchinson, C. Richard, San Mateo, CA, UNITED STATES
Katz, Leonard, Oakland, CA, UNITED STATES
Reid, Ralph, San Rafael, CA, UNITED STATES
Hu, Zhihao, Castro Valley, CA, UNITED STATES
Gramajo, Hugo, Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004203015	A1	20041014
APPLICATION INFO.:	US 2003-611442	A1	20030630 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-393016P	20020628 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Ted Apple, (Townsend and Townsend and Crew), 379 Lytton Avenue, Palo Alto, CA, 94301	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	2721	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 14 USPATFULL on STN
 TI Heterologous production of polyketides
 AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product or precursor at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:239735 USPATFULL
 TITLE: Heterologous production of polyketides
 INVENTOR(S): Santi, Daniel, San Francisco, CA, UNITED STATES
 Dayem, Linda, San Anselmo, CA, UNITED STATES
 Kealey, James, San Anselmo, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004185541	A1	20040923
APPLICATION INFO.:	US 2004-829897	A1	20040421 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-942407, filed on 29 Aug 2001, PENDING Division of Ser. No. US 2000-699136, filed on 27 Oct 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161703P	19991027 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	3330	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 14 USPATFULL on STN
 TI Recombinant chalcomycin polyketide synthase and modifying genes
 AB Domains of chalcomycin polyketide synthases and modification enzymes and polynucleotides encoding them are provided. Methods to prepare chalcomycin in pharmaceutically useful quantities are described, as are methods to prepare chalcomycin analogs and other polyketides using the polynucleotides encoding chalcomycin polyketide synthase domains or modifying enzymes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:171894 USPATFULL
 TITLE: Recombinant chalcomycin polyketide synthase and modifying genes
 INVENTOR(S): Katz, Leonard, Oakland, CA, UNITED STATES
 Reid, Ralph C., San Rafael, CA, UNITED STATES
 Hu, Zhihao, Castro Valley, CA, UNITED STATES
 Schirmer, Andreas, Hayward, CA, UNITED STATES
 Ward, Shannon L., Pleasanton, CA, UNITED STATES
 Reeves, Christopher, Orinda, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004132055	A1	20040708
APPLICATION INFO.:	US 2003-647196	A1	20030821 (10)

NUMBER	DATE
--------	------

PRIORITY INFORMATION: US 2002-420994P 20021024 (60)
US 2003-493966P 20030808 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO,
CA, 94304-1018
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 9387
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 14 USPATFULL on STN
TI Recombinant polynucleotides encoding pro-geldanamycin producing
polyketide synthase and accessory proteins, and uses thereof
AB The invention relates to recombinant polyketide synthase enzymes,
polyketide modifying proteins, and other proteins involved in polyketide
biosynthesis or function. The invention provides domains of geldanamycin
and herbimycin polyketide synthases, polynucleotides that encode such
enzymes, and to host cells in which such encoding polynucleotides can be
advantageously expressed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:101196 USPATFULL
TITLE: Recombinant polynucleotides encoding pro-geldanamycin
producing polyketide synthase and accessory proteins,
and uses thereof
INVENTOR(S): Hutchinson, Richard C., San Mateo, CA, UNITED STATES
Reid, Ralph C., San Rafael, CA, UNITED STATES
Hu, Zhihao, Castro Valley, CA, UNITED STATES
Rascher, Andreas, San Francisco, CA, UNITED STATES
Schirmer, Andreas, Hayward, CA, UNITED STATES
McDaniel, Robert, Palo Alto, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004077058	A1	20040422
	US 7189549	B2	20070313
APPLICATION INFO.:	US 2003-461194	A1	20030613 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2002-212962, filed on 5 Aug 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-389255P	20020614 (60)
	US 2002-393929P	20020703 (60)
	US 2002-395275P	20020712 (60)
	US 2002-415326P	20020930 (60)
	US 2002-420820P	20021024 (60)
	US 2002-433130P	20021213 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO, CA, 94304-1018	
NUMBER OF CLAIMS:	48	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	6799	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 8 OF 14 USPATFULL on STN
TI Heterologous production of polyketides
AB Recombinant host cells that comprise recombinant DNA expression vectors

that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product or precursor at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:7438 USPATFULL
TITLE: Heterologous production of polyketides
INVENTOR(S): Santi, Daniel V., San Francisco, CA, UNITED STATES
Khosla, Chaitan, Stanfrod, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004005672	A1	20040108
APPLICATION INFO.:	US 2003-371475	A1	20030221 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-358936P	20020222 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Kosan Biosciences, Inc., Intellectual Property Department, 3832 Bay Center Place, Hayward, CA, 94545	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	3491	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 14 USPATFULL on STN
TI Production of polyketides
AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:335016 USPATFULL
TITLE: Production of polyketides
INVENTOR(S): Katz, Leonard, Oakland, CA, UNITED STATES
Revill, Peter, Oakland, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003235892	A1	20031225
APPLICATION INFO.:	US 2003-607809	A1	20030627 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-697022, filed on 25 Oct 2000, GRANTED, Pat. No. US 6627427		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161414P	19991025 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	2751	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 14 USPATFULL on STN

TI Novel methods of diagnosis of metastatic colorectal cancer, compositions and methods of screening for modulators of metastatic colorectal cancer

AB Described herein are methods and compositions that can be used for diagnosis and treatment of metastatic colorectal cancer. Also described herein are methods that can be used to identify modulators of metastatic colorectal cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:334944 USPATFULL

TITLE: Novel methods of diagnosis of metastatic colorectal cancer, compositions and methods of screening for modulators of metastatic colorectal cancer

INVENTOR(S): Mack, David H., Menlo Park, CA, UNITED STATES
Markowitz, Sanford David, Pepper Pike, OH, UNITED STATES

PATENT ASSIGNEE(S): Eos Biotechnology, Inc., South San Francisco, CA (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003235820	A1	20031225
APPLICATION INFO.:	US 2002-87080	A1	20020227 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-284555P	20010417 (60)
	US 2001-281149P	20010402 (60)
	US 2001-272206P	20010227 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

LINE COUNT: 22670

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 14 USPATFULL on STN

TI Heterologous production of 15-methyl-6-deoxyerthronolide B

AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:260669 USPATFULL

TITLE: Heterologous production of 15-methyl-6-deoxyerthronolide B

INVENTOR(S): Katz, Leonard, Oakland, CA, United States
Revill, Peter, Oakland, CA, United States

PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6627427	B1	20030930
APPLICATION INFO.:	US 2000-697022		20001025 (9)

NUMBER	DATE
--------	------

PRIORITY INFORMATION: US 1999-161414P 19991025 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Kerr, Kathleen
LEGAL REPRESENTATIVE: Morrison & Foerster LLP, Kaster, Kevin
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 20 Drawing Figure(s); 20 Drawing Page(s)
LINE COUNT: 3167
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 14 USPATFULL on STN
TI Recombinant megalomicin biosynthetic genes and uses thereof
AB Recombinant nucleic acids that encode all or a portion of the megAI gene of the megalomicin polyketide synthase (PKS) of Micromonospora megalomicea are used to produce recombinant PKS enzymes in host cells to make megalomicin, megalomicin derivatives, and other polyketides that are useful as antibiotics, motilides, and antiparasitics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:53694 USPATFULL
TITLE: Recombinant megalomicin biosynthetic genes and uses thereof
INVENTOR(S): McDaniel, Robert, Palo Alto, CA, United States
Volchegursky, Yanina, Emeryville, CA, United States
PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6524841	B1	20030225
APPLICATION INFO.:	US 2000-679279		20001004 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-190024P	20000317 (60)
	US 1999-158305P	19991008 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Achutamurthy, Ponnathapu	
ASSISTANT EXAMINER:	Kerr, Kathy	
LEGAL REPRESENTATIVE:	Morrison & Foerster LLP	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	70 Drawing Figure(s); 70 Drawing Page(s)	
LINE COUNT:	6745	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 13 OF 14 USPATFULL on STN
TI Isolated gene for methylmalonyl CoA epimerase and uses thereof
AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product or precursor at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:258831 USPATFULL
TITLE: Isolated gene for methylmalonyl CoA epimerase and uses thereof
INVENTOR(S): Santi, Daniel, San Francisco, CA, UNITED STATES
Dayem, Linda, Belmont, CA, UNITED STATES

Kealey, James, San Rafael, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002142401	A1	20021003
APPLICATION INFO.:	US 2001-942407	A1	20010829 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-699136, filed on 27 Oct 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161703P	19991027 (60)
	US 1999-161414P	19991025 (60)
	US 2000-206082P	20000518 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carolyn A. Favorito, Morrison & Foerster LLP, Suite 500, 3811 Valley Centre Drive, San Diego, CA, 92130-2332	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	3389	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 14 OF 14 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Novel isolated, purified, or recombinant nucleic acid comprising polyketide modifying gene, there gene encodes polyketide modifying enzyme e.g., MegR, MegK, or MegM enzymes useful for producing modified polyketide

AN 2004-203379 [19] WPIDS

AB WO 2004003169 A2 UPAB: 20060121

NOVELTY - An isolated, purified, or recombinant nucleic acid (I) comprising a polyketide modifying gene, where the gene encodes a polyketide modifying enzyme chosen from MegR, MegF, MegK, MegCIV, MegCV, MegBVI, MegBIII, MegL, and MegM enzymes, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) an isolated, purified, or recombinant nucleic acid (II) comprising genes for the biosynthesis mycarose for attachment to a polyketide, the enzymes comprising the MegM, MegL, MegBIII, MegBIV, MegDIV, MegBII-2, and MegBVI enzymes;

(2) an isolated, purified, or recombinant nucleic acid (III) comprising genes for the biosynthesis mycarose for attachment of megosamine of a polyketide, the enzymes comprising the MegM, MegL, MegCII, MegBVI, MegDIV, MegDV, MegDII, MegDIII, and MegDI enzymes;

(3) an isolated, purified, or recombinant nucleic acid (IV) comprising genes for the biosynthesis of desosamine to a polyketide, the enzymes consisting of the MegM, MegL, MegCII, MegCIV, MegCV, MegDII, and MegDIII enzymes;

(4) an expression vector (V) comprising (I);

(5) a host cell comprising (I);

(6) a host cell comprising (II) that expresses a polyketide modifying enzyme encoded by a gene from a mycarose biosynthetic gene set, where the enzyme is chosen from MegM, MegL, MegBIII, MegBIV, MegDIV, MegBII-2, and MegBVI, MegBV, and MegF;

(7) a host cell comprising (III) that expresses a polyketide modifying enzyme encoded by a gene from a megosamine biosynthetic gene set, where the enzyme is chosen from MegM, MegL, MegCII, MegBVI, MegDIV, MegDV, MegDVI, MegDVII, MegDII, MegDIII, and MegDI; and

(8) a host cell comprising (IV) that expresses a polyketide modifying enzyme encoded by a gene from a desosamine biosynthetic gene set, where the enzyme is chosen from MegM, MegL, MegCII, MegCIV, MegCV, MegDII, and MegCIII.

USE - (M1) is useful for producing a modified polyketide, which involves culturing a recombinant cell comprising (I) under conditions in which the cell expresses a product of a gene encoded by (I) under conditions in which the unmodified polyketide is present, and producing the modified polyketide. In (M1), the cell further comprises (I) one or more module of a polyketide synthase. The cell produces megosamine and can attach megosamine to a polyketide, where the cell, it its naturally occurring non-recombinant state cannot produce megosamine. (All claimed.)

DESCRIPTION OF DRAWINGS - The drawing shows a schematic of the megalomicin polyketide synthase (meg DEBS) and corresponding meg genes upstream and downstream of the meg DEBS region and cosmid overlapping this region.

ACCESSION NUMBER: 2004-203379 [19] WPIDS
DOC. NO. CPI: C2004-080057 [19]
TITLE: Novel isolated, purified, or recombinant nucleic acid comprising polyketide modifying gene, there gene encodes polyketide modifying enzyme e.g., MegR, MegK, or MegM enzymes useful for producing modified polyketide
DERWENT CLASS: B03; B04; C02; D16
INVENTOR: GRAMAJO H; HU Z; HUTCHINSON C R; HUTCHINSON R C; KATZ L; REID R
PATENT ASSIGNEE: (GRAM-I) GRAMAJO H; (HUZZ-I) HU Z; (HUTC-I) HUTCHINSON C R; (KATZ-I) KATZ L; (KOSA-N) KOSAN BIOSCIENCES INC; (REID-I) REID R
COUNTRY COUNT: 103

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2004003169	A2	20040108	(200419) *	EN	51[3]	
AU 2003258978	A1	20040119	(200447)	EN		
US 20040203015	A1	20041014	(200468)	EN		
AU 2003258978	A8	20051117	(200638)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004003169	A2	WO 2003-US20681	20030630
US 20040203015	A1 Provisional	US 2002-393016P	20020628
AU 2003258978	A1	AU 2003-258978	20030630
US 20040203015	A1	US 2003-611442	20030630
AU 2003258978	A8	AU 2003-258978	20030630

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003258978	A1 Based on	WO 2004003169 A
AU 2003258978	A8 Based on	WO 2004003169 A

PRIORITY APPLN. INFO: US 2002-393016P 20020628
US 2003-611442 20030630

=> d his

(FILE 'HOME' ENTERED AT 15:33:39 ON 13 APR 2007)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT
15:39:17 ON 13 APR 2007

L1 548 S (MEGL OR MEGK OR MEGF OR MEGBIII OR MEGCV)
L2 18 S L1 AND (GENE CLUSTER)
L3 14 S L2 AND (VECTOR)
L4 14 S L3 AND (HOST CELL)

=> s l1 and (DNA)

L5 132 L1 AND (DNA)

=> s l5 and (modifying enzyme)

L6 9 L5 AND (MODIFYING ENZYME)

=> d l6 ti abs ibib tot

L6 ANSWER 1 OF 9 USPATFULL on STN

TI Heterologous production of polyketides

AB Recombinant E. coli host cells that comprise recombinant DNA expression vectors that drive expression of methylmalonyl CoA mutase from *Propionibacterium shermanii* or *Streptomyces cinnamomensis* as well as *Propionibacterium shermanii* epimerase can produce S-methylmalonyl CoA, a required substrate for the production of polyketides by most modular polyketide synthases and is not present in wild-type E. coli host cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2006:63029 USPATFULL

TITLE: Heterologous production of polyketides

INVENTOR(S): Santi, Daniel, San Francisco, CA, UNITED STATES

Peck, Larry, San Carlos, CA, UNITED STATES

Dayem, Linda, Belmont, CA, UNITED STATES

Kealey, James, San Rafael, CA, UNITED STATES

PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, UNITED STATES
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 7011959	B1	20060314
APPLICATION INFO.:	US 2000-699136		20001027 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161703P	19991027 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Kerr, Kathleen	
LEGAL REPRESENTATIVE:	Ashley, Gary W.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	3239	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 9 USPATFULL on STN

TI Gene cluster for fostriecin biosynthesis

AB Domains of fostriecin polyketide synthase and modification enzymes and polynucleotides encoding them are provided. Methods to prepare fostriecin in pharmaceutically useful quantities are described, as are methods to prepare fostriecin analogs and other polyketides using the polynucleotides encoding fostriecin polyketide synthase domains or modifying enzymes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:171298 USPATFULL

TITLE: Gene cluster for fostriecin biosynthesis
INVENTOR(S): Reid, Ralph C., San Rafael, CA, UNITED STATES
Hu, Zhihao, Castro Valley, CA, UNITED STATES
Tang, Li, Foster City, CA, UNITED STATES
PATENT ASSIGNEE(S): KOSAN BIOSCIENCES, INC., A Delaware corporation,
Hayward, CA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005148045	A1	20050707
APPLICATION INFO.:	US 2004-922282	A1	20040818 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-496306P	20030818 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834, US	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	9199	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 9 USPATFULL on STN
TI Disorazole polyketide synthase encoding polynucleotides
AB Domains of disorazole polyketide synthase and polynucleotides encoding
them are provided. Methods to prepare disorazoles in pharmaceutically
useful quantities are described, as are methods to prepare disorazole
analogs and other polyketides using the polynucleotides encoding
disorazole polyketide synthase domains or modifying enzymes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2005:37505 USPATFULL
TITLE: Disorazole polyketide synthase encoding polynucleotides
INVENTOR(S): Julien, Bryan, Oakland, CA, UNITED STATES
Reid, Ralph C., San Rafael, CA, UNITED STATES
PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, UNITED STATES,
94545 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005032184	A1	20050210
APPLICATION INFO.:	US 2003-729802	A1	20031205 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-512892P	20031020 (60)
	US 2003-484934P	20030702 (60)
	US 2003-473311P	20030522 (60)
	US 2003-465038P	20030423 (60)
	US 2003-455521P	20030317 (60)
	US 2002-431272P	20021206 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	4711	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 9 USPATFULL on STN
TI Recombinant genes for polyketide modifying enzymes
AB Materials and methods to produce modified polyketides are disclosed. The biosynthesis, transfer and regulator genes for various sugars to effectuate polyketide modification are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:260518 USPATFULL
TITLE: Recombinant genes for polyketide modifying enzymes
INVENTOR(S): Hutchinson, C. Richard, San Mateo, CA, UNITED STATES
Katz, Leonard, Oakland, CA, UNITED STATES
Reid, Ralph, San Rafael, CA, UNITED STATES
Hu, Zhihao, Castro Valley, CA, UNITED STATES
Gramajo, Hugo, Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004203015	A1	20041014
APPLICATION INFO.:	US 2003-611442	A1	20030630 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-393016P	20020628 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Ted Apple, (Townsend and Townsend and Crew), 379 Lytton Avenue, Palo Alto, CA, 94301	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	2721	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 9 USPATFULL on STN
TI Heterologous production of polyketides
AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product or precursor at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:239735 USPATFULL
TITLE: Heterologous production of polyketides
INVENTOR(S): Santi, Daniel, San Francisco, CA, UNITED STATES
Dayem, Linda, San Anselmo, CA, UNITED STATES
Kealey, James, San Anselmo, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004185541	A1	20040923
APPLICATION INFO.:	US 2004-829897	A1	20040421 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-942407, filed on 29 Aug 2001, PENDING Division of Ser. No. US 2000-699136, filed on 27 Oct 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161703P	19991027 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE,	

SUITE 500, SAN DIEGO, CA, 92130-2332

NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 3330
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 9 USPATFULL on STN
TI Recombinant chalcomycin polyketide synthase and modifying genes
AB Domains of chalcomycin polyketide synthases and modification enzymes and polynucleotides encoding them are provided. Methods to prepare chalcomycin in pharmaceutically useful quantities are described, as are methods to prepare chalcomycin analogs and other polyketides using the polynucleotides encoding chalcomycin polyketide synthase domains or modifying enzymes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:171894 USPATFULL
TITLE: Recombinant chalcomycin polyketide synthase and modifying genes
INVENTOR(S): Katz, Leonard, Oakland, CA, UNITED STATES
Reid, Ralph C., San Rafael, CA, UNITED STATES
Hu, Zhihao, Castro Valley, CA, UNITED STATES
Schirmer, Andreas, Hayward, CA, UNITED STATES
Ward, Shannon L., Pleasanton, CA, UNITED STATES
Reeves, Christopher, Orinda, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004132055	A1	20040708
APPLICATION INFO.:	US 2003-647196	A1	20030821 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-420994P	20021024 (60)
	US 2003-493966P	20030808 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO, CA, 94304-1018	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	9387	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 9 USPATFULL on STN
TI Heterologous production of polyketides
AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product or precursor at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:7438 USPATFULL
TITLE: Heterologous production of polyketides
INVENTOR(S): Santi, Daniel V., San Francisco, CA, UNITED STATES
Khosla, Chaitan, Stanfrod, CA, UNITED STATES

NUMBER	KIND	DATE
--------	------	------

PATENT INFORMATION: US 2004005672 A1 20040108
APPLICATION INFO.: US 2003-371475 A1 20030221 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-358936P	20020222 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Kosan Biosciences, Inc., Intellectual Property Department, 3832 Bay Center Place, Hayward, CA, 94545	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	3491	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 9 USPATFULL on STN
TI Isolated gene for methylmalonyl CoA epimerase and uses thereof
AB Recombinant host cells that comprise recombinant DNA
expression vectors that drive expression of a product and a precursor
for biosynthesis of that product can be used to produce useful products
such as polyketides in host cells that do not naturally produce the
product or produce the product or precursor at low levels due to the
absence of the precursor or the presence of the precursor in rate
limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:258831 USPATFULL
TITLE: Isolated gene for methylmalonyl CoA epimerase and uses
thereof
INVENTOR(S): Santi, Daniel, San Francisco, CA, UNITED STATES
Dayem, Linda, Belmont, CA, UNITED STATES
Kealey, James, San Rafael, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002142401	A1	20021003
APPLICATION INFO.:	US 2001-942407	A1	20010829 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-699136, filed on 27 Oct 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161703P	19991027 (60)
	US 1999-161414P	19991025 (60)
	US 2000-206082P	20000518 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carolyn A. Favorito, Morrison & Foerster LLP, Suite 500, 3811 Valley Centre Drive, San Diego, CA, 92130-2332	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	3389	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Novel isolated, purified, or recombinant nucleic acid comprising
polyketide modifying gene, there gene encodes polyketide modifying
enzyme e.g., MegR, MegK, or MegM enzymes useful for
producing modified polyketide
AN 2004-203379 [19] WPIDS

AB WO 2004003169 A2 UPAB: 20060121

NOVELTY - An isolated, purified, or recombinant nucleic acid (I) comprising a polyketide modifying gene, where the gene encodes a polyketide modifying enzyme chosen from MegR, MegF, MegK, MegCIV, MegCV, MegBVI, MegBIII, MegL, and MegM enzymes, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) an isolated, purified, or recombinant nucleic acid (II) comprising genes for the biosynthesis mycarose for attachment to a polyketide, the enzymes comprising the MegM, MegL, MegBIII, MegBIV, MegDIV, MegBII-2, and MegBVI enzymes;

(2) an isolated, purified, or recombinant nucleic acid (III) comprising genes for the biosynthesis mycarose for attachment of megosamine of a polyketide, the enzymes comprising the MegM, MegL, MegCII, MegBVI, MegDIV, MegDV, MegDII, MegDIII, and MegDI enzymes;

(3) an isolated, purified, or recombinant nucleic acid (IV) comprising genes for the biosynthesis of desosamine to a polyketide, the enzymes consisting of the MegM, MegL, MegCII, MegCIV, MegCV, MegDII, and MegDIII enzymes;

(4) an expression vector (V) comprising (I);

(5) a host cell comprising (I);

(6) a host cell comprising (II) that expresses a polyketide modifying enzyme encoded by a gene from a mycarose biosynthetic gene set, where the enzyme is chosen from MegM, MegL, MegBIII, MegBIV, MegDIV, MegBII-2, and MegBVI, MegBV, and MegF;

(7) a host cell comprising (III) that expresses a polyketide modifying enzyme encoded by a gene from a megosamine biosynthetic gene set, where the enzyme is chosen from MegM, MegL, MegCII, MegBVI, MegDIV, MegDV, MegDVI, MegDVII, MegDII, MegDIII, and MegDI; and

(8) a host cell comprising (IV) that expresses a polyketide modifying enzyme encoded by a gene from a desosamine biosynthetic gene set, where the enzyme is chosen from MegM, MegL, MegCII, MegCIV, MegCV, MegDII, and MegDIII.

USE - (M1) is useful for producing a modified polyketide, which involves culturing a recombinant cell comprising (I) under conditions in which the cell expresses a product of a gene encoded by (I) under conditions in which the unmodified polyketide is present, and producing the modified polyketide. In (M1), the cell further comprises (I) one or more module of a polyketide synthase. The cell produces megosamine and can attach megosamine to a polyketide, where the cell, it its naturally occurring non-recombinant state cannot produce megosamine. (All claimed.)

DESCRIPTION OF DRAWINGS - The drawing shows a schematic of the megalomicin polyketide synthase (meg DEBS) and corresponding meg genes upstream and downstream of the meg DEBS region and cosmids overlapping this region.

ACCESSION NUMBER: 2004-203379 [19] WPIDS

DOC. NO. CPI: C2004-080057 [19]

TITLE: Novel isolated, purified, or recombinant nucleic acid comprising polyketide modifying gene, there gene encodes polyketide modifying enzyme e.g., MegR, MegK, or MegM enzymes useful for producing modified polyketide

DERWENT CLASS: B03; B04; C02; D16

INVENTOR: GRAMAJO H; HU Z; HUTCHINSON C R; HUTCHINSON R C; KATZ L; REID R

PATENT ASSIGNEE: (GRAM-I) GRAMAJO H; (HUZZ-I) HU Z; (HUTC-I) HUTCHINSON C R; (KATZ-I) KATZ L; (KOSA-N) KOSAN BIOSCIENCES INC; (REID-I) REID R

COUNTRY COUNT: 103

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2004003169	A2	20040108	(200419) *	EN	51 [3]	
AU 2003258978	A1	20040119	(200447)	EN		
US 20040203015	A1	20041014	(200468)	EN		
AU 2003258978	A8	20051117	(200638)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004003169	A2	WO 2003-US20681	20030630
US 20040203015	A1 Provisional	US 2002-393016P	20020628
AU 2003258978	A1	AU 2003-258978	20030630
US 20040203015	A1	US 2003-611442	20030630
AU 2003258978	A8	AU 2003-258978	20030630

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003258978	A1 Based on	WO 2004003169 A
AU 2003258978	A8 Based on	WO 2004003169 A

PRIORITY APPLN. INFO: US 2002-393016P 20020628
US 2003-611442 20030630